

MT48 Network Interface

As soon as the MT48 is connected to the computer via USB, it automatically operates as a full network interface at the same time and also appears in the Hardware Device Manager. Comparable like a network card directly in a computer. However, it is not used as an active network interface if there is no RJ45 cable in the port and therefore no connection to a router/switch is established via this interface.

The MT48 assigns itself an IP-Address when it is in AUTO mode in the network settings. This is done via the "Link local address space" and an "automatic private IP address (APIPA)" from the range [169.254.xx.xx] will be used.

This IP address can then be used for a remote-control session via browser (Chrome, Edge...) to call up the web interface of the MT48.

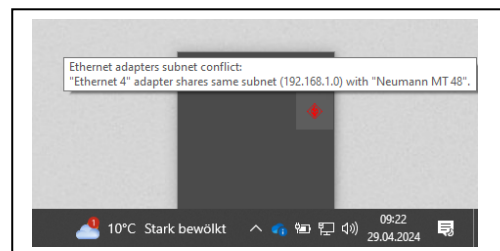
So, the USB-Port acts as a network bridge. USB to the computer and internally in the MT48 the USB data for the audio streams and control are translated to a network protocol. The reason for this is that the MT48 is used by the premium audio interface technology from Merging Anubis, which supports the AES67/Ravenna network protocol over 1GB Ethernet.

With the MT48, however, it is not recommended to connect USB and network port to the computer at the same time, as otherwise a network conflict may occur if there is a primary LAN/WLAN connection via another network adapter.

As soon as the MT48 is connected to the network in addition to the USB connection, the device assigns itself a new IP address depending on the network configuration. IP address that the router assigns from the so-called private address range will be assigned. (example: 192.168.x.x)

At this point, a conflict may happen, as the MT48 is now connected via USB and RJ45 to the same subnet as the computer's primary built-in network adapter (LAN/WLAN). The color of the Neumann icon in the tray bar/toolbar changes from black to red and a corresponding subnet conflict warning is displayed.

"Ethernet Adapter Subnetconflict: Ethernet Adapter shares same subnet (192.168.x.x) with MT48"



To avoid this conflict, the USB and RJ45 connection of the MT48 should not be used simultaneously if there is already another connection established to the router via another primary network card or WLAN.

Exceptions:

If you want to control the MT48 remotely with an iPad for example, as described in the manual, it must also be connected to the network via the network interface. In this case and to avoid the IP conflict, the primary LAN/WLAN connection of the computer should be deactivated so that the MT48 is the only one network interface.

You can now control MT48 by entering the IP address with any tablet/phone or other computer with a browser. Even simultaneously from different systems.

Note:

1. the MT48 network interface is a fully network card that is connected to your computer/laptop via USB. You can also use this interface as the solid network interface for connecting to your router/switch and use it for any network traffic (mail/Internet/VPN...etc.).
2. if you still want to operate several network adapters at the same time, you can do this by configuring each adapter in its own subnet.
3. the MT48 can be simultaneously supplied with power via the RJ45 network interface, so that no additional power cable/adaptor is required. This is done via PoE (Power over Ethernet). Not every router/switch has this PoE function. First read the specifications to see whether PoE is supported with sufficient power.